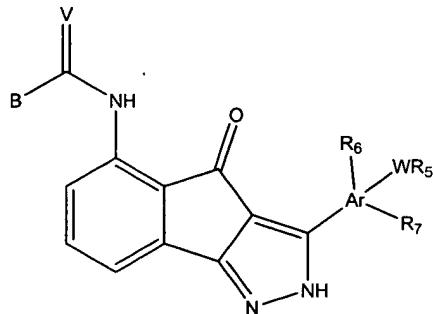


Claims:

1. A compound, or an isomeric, prodrug, tautomeric, pharmaceutically acceptable salt, N-oxide, or stereoisomeric form thereof, having a structure of Formula II:



wherein

B represents M_nR_8 ;

Ar represents an aryl or heteroaryl ring;

V represents O, S, or N-CN;

W represents O, S, or NR'';

R' represents, independently for each occurrence, H, lower alkyl, or a metal counterion;

R'' represents, independently for each occurrence, H or lower alkyl;

R_5 represents H, $P(=O)(OR')_2$, or M_nQ ;

R_6 represents H, OH, or M_nQ , provided that only one of R_5 and R_6 represents H;

R₇ represents H, halogen, hydroxyl, lower alkyl or lower alkoxy;

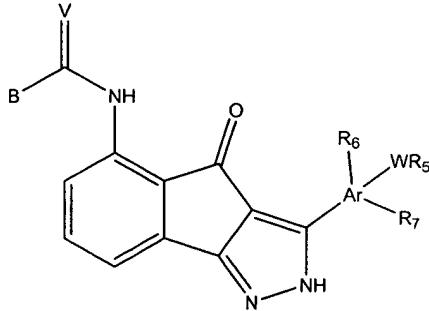
R_8 represents substituted or unsubstituted alkyl, alkenyl, alkynyl, alkoxy, aryl, heteroaryl, cyclo-alkyl, heterocyclyl, or amine;

M, independently for each occurrence, represents a substituted or unsubstituted methylene group (including C(=O) and C(=S)), NR'', O, S, S(O), or S(O₂); n represents an integer from 1-4 when present in B, from 0-6 when present in R₅, and from 1-3 when present in R₆; and

Q represents a substituted or unsubstituted: tertiary amino substituent, or nitrogen-containing heterocycle.

2. A compound of claim 1, wherein R₈ represents substituted or unsubstituted morpholino, piperazinyl, or cyclohexyl.

3. A compound of claim 1, wherein R'' represents H.
4. A compound of claim 1, wherein R₅ represents M_nQ.
5. A compound of claim 4, wherein the occurrence of M attached to Q represents CH₂, S(O₂), C(=S), or C(=O).
6. A compound of claim 5, wherein the occurrence of M attached to Q represents CH₂.
7. A compound of claim 5, wherein the occurrence of M attached to Q is C(=O).
8. A compound of claim 4, wherein the occurrence of M attached to Q represents substituted NR''.
9. A compound of claim 4, wherein Q represents a substituted or unsubstituted nitrogen-containing heterocycle.
10. A compound of claim 4, wherein Q represents a substituted or unsubstituted tertiary amino group.
11. A compound, or an isomeric, prodrug, tautomeric, pharmaceutically acceptable salt, N-oxide, or stereoisomeric form thereof, having a structure of Formula II:



wherein

B represents M_nR₈;

Ar represents an aryl or heteroaryl ring;

V represents O, S, or N-CN;

W represents O, S, or NR'';

R' represents, independently for each occurrence, H, lower alkyl, or a metal counterion;

R'' represents, independently for each occurrence, H or lower alkyl;

R''' represents H or optionally substituted lower alkyl;

R₅ represents M_nJK;

R₆ represents H, OH, or M_nQ;

R₇ represents H, halogen, hydroxyl, lower alkyl or lower alkoxy;

R₈ represents substituted or unsubstituted alkyl, alkenyl, alkynyl, alkoxy, aryl, heteroaryl, cyclo-alkyl, heterocyclyl, or amine;

J represents C(=O), C(=S), or SO₂;

K represents OR', NR'', or N(R')SO₂R'';

M, independently for each occurrence, represents a substituted or unsubstituted methylene group, NR'', O, S, S(O), or S(O₂);

n represents an integer from 1-7 when present in B, from 0-6 when present in R₅, and from 1-3 when present in R₆; and

Q represents a substituted or unsubstituted: tertiary amino substituent or nitrogen-containing heterocycle.

12. A compound of claim 11, wherein R₈ represents substituted or unsubstituted morpholino, piperazinyl, or cyclohexyl.

13. A compound of claim 11, wherein R'' represents H.

14. A compound of claim 11, wherein R₆ represents M_nQ.

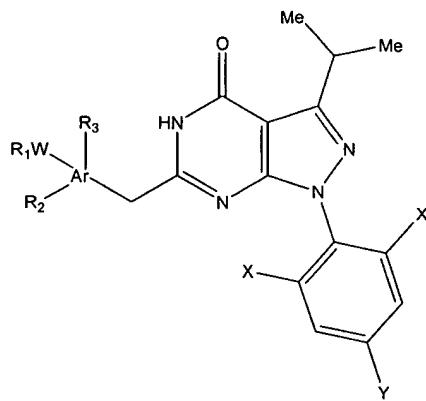
15. A compound of claim 14, wherein the occurrence of M attached to Q represents CH₂, S(O₂), C(=S), or C(=O).

16. A compound of claim 15, wherein the occurrence of M attached to Q is C(=O).

17. A compound of claim 15, wherein the occurrence of M attached to Q represents CH₂.

18. A compound of claim 14, wherein the occurrence of M attached to Q represents substituted NR''.

19. A compound of claim 14, wherein Q represents a substituted or unsubstituted tertiary amino substituent.
20. A compound of claim 14, wherein Q represents a substituted or unsubstituted nitrogen-containing heterocycle.
21. A compound of any of claims 1, 7, 9 and 11, wherein substituents include, independently for each occurrence, alkyl, oxo, acyl amino, hydroxyl, carbonyl, sulfonyl, ester, amide, NR'', hydroxy alkyl, alkoxy alkyl, aryl, heterocyclyl, cycloalkyl, or oligo(ethylene glycol).
22. A pharmaceutical composition comprising a pharmaceutically acceptable excipient and a compound of any of claims 1, 7, 9 and 11.
23. A method of treating a hyperproliferative disorder, comprising administering to an animal a compound of any of claims 1, 7, 9 and 11.
24. A method of inhibiting proliferation of a cell, comprising contacting the cell with a compound of any of claims 1, 7, 9 and 11.
25. A method of treating a viral infection, comprising administering to a mammal a compound of any of claims 1, 7, 9 and 11.
26. The method of claim 25, wherein the viral infection is caused by a human immunodeficiency virus (HIV).
27. A method for the treatment or prevention of alopecia induced by chemotherapy or radiation therapy, comprising administering to a mammal a compound of any of claims 1, 7, 9, and 11 conjointly with one or more chemotherapeutics or radiation therapy.
28. A compound, or an isomeric, prodrug, tautomeric, pharmaceutically acceptable salt, N-oxide, or stereoisomeric form thereof, having a structure of Formula I:



wherein

Ar represents an aryl or heteroaryl ring;

W represents O, S, or NR'';

X represents, independently for each occurrence, methyl or halogen;

Y represents H, X, or a sulfonamide;

R' represents, independently for each occurrence, H, lower alkyl, or a metal counterion;

R'' represents, independently for each occurrence, H or lower alkyl;

R₁ represents H, P(=O)(OR')₂, or M_nQ;

R₂ represents H, OH, or M_nQ, wherein one and only one of R₁ and R₂ represents H;

R₃ represents from 0 to 3 substituents on the ring to which it is attached, selected from halogen, lower alkyl, lower alkoxy, hydroxyl, and N(R'')₂;

M, independently for each occurrence, represents a substituted or unsubstituted methylene group (including C(=S) and C(=O)), NR'', O, S, S(O), or S(O₂);

n represents an integer from 1 to 5; and

Q represents a substituted or unsubstituted: tertiary amino substituent or nitrogen-containing heterocycle.

29. A compound of claim 28, wherein Q represents a substituted or unsubstituted nitrogen-containing heterocycle.

30. The compound of claim 28, wherein R₁W and R₂ are ortho to each other on Ar but are not ortho to the methylene substituent attached to the bicyclic core.

31. The compound of claim 28, wherein Ar represents a heteroaryl ring.

32. The compound of claim 27, wherein R₃ represents 1-3 substituents on the ring to which it is attached.
33. The compound of claim 28, wherein Y represents S(O₂)N(R''')₂, wherein R''' represents, independently for each occurrence, H, lower alkoxy, or lower alkyl.
34. The compound of claim 33, wherein both occurrences of R''' taken together with N form a substituted or unsubstituted nitrogen-containing heterocycle.
35. A pharmaceutical composition comprising a pharmaceutically acceptable excipient and a compound of claim 28.
36. A method of treating a hyperproliferative disorder, comprising administering to an animal a compound of claim 28.
37. A method of inhibiting proliferation of a cell, comprising contacting the cell with a compound of claim 28.
38. A method of treating a viral infection, comprising administering to a mammal a compound of claim 28.
39. The method of claim 38, wherein the viral infection is caused by a human immunodeficiency virus (HIV).
40. A method for the treatment or prevention of alopecia induced by chemotherapy or radiation therapy, comprising administering to a mammal a compound of claim 28 conjointly with one or more chemotherapeutics or radiation therapy.
41. The use of a compound of claim 1, 11, or 28 for the manufacture of a medicament.